

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/537,449  
Source: IFW/b  
Date Processed by STIC: 8/1/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/537,449

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 \_\_\_\_\_ Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
  
- 2 \_\_\_\_\_ Invalid Line Length     The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
  
- 3 \_\_\_\_\_ Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
  
- 4 \_\_\_\_\_ Non-ASCII     The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
  
- 5 \_\_\_\_\_ Variable Length     Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
  
- 6 \_\_\_\_\_ PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
  
- 7 \_\_\_\_\_ Skipped Sequences  
    (OLD RULES)     Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for **each** skipped sequence:  
                                  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                  (i)     SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                                  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                                  This sequence is intentionally skipped  
                                  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
  
- 8 \_\_\_\_\_ Skipped Sequences  
    (NEW RULES)     Sequence(s) \_\_\_\_\_ missing. If **intentional**, please insert the following lines for **each** skipped sequence.  
                                  <210> sequence id number  
                                  <400> sequence id number  
                                  000
  
- 9 \_\_\_\_\_ Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                                  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                                  In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
  
- 10 \_\_\_\_\_ Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
  
- 11 \_\_\_\_\_ Use of <220>     Sequence(s) \_\_\_\_\_ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."  
                                  →     Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
  
- 12 \_\_\_\_\_ PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
  
- 13 \_\_\_\_\_ Misuse of n/Xaa     "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/537,449

DATE: 08/01/2006

TIME: 10:08:44

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\08012006\J537449.raw

3 <110> APPLICANT: Technische Universitat Dresden  
 5 <120> TITLE OF INVENTION: Polynucleotides Targeted Against Htert and Use  
 Thereof  
 7 <130> FILE REFERENCE: 101215-189-2  
 9 <140> CURRENT APPLICATION NUMBER: 10/537,449  
 C--> 10 <141> CURRENT FILING DATE: 2006-01-09  
 12 <160> NUMBER OF SEQ ID NOS: 18  
 14 <170> SOFTWARE: PatentIn Ver. 2.1  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 75  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: Homo sapiens  
 21 <220> FEATURE:  
 22 <221> NAME/KEY: mRNA  
 23 <222> LOCATION: (1)..(75)  
 24 <223> OTHER INFORMATION: subunit 2176-2250 of hTERT (Accession AF015950)  
 26 <400> SEQUENCE: 1  
 27 ctttgtcaag gtggatgtga cgggcgcgta cgacaccatc cccaggaca ggctcacgga 60  
 28 ggtcatcgcc agcat 75  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 98  
 33 <212> TYPE: DNA  
 34 <213> ORGANISM: Homo sapiens  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: mRNA  
 38 <222> LOCATION: (1)..(98)  
 39 <223> OTHER INFORMATION: subunit 2296-2393 of hTERT (Accession AF015950)  
 41 <400> SEQUENCE: 2  
 42 ccagaaggcc gcccatgggc acgtccgcaa ggccttcaag agccacgtct ctaccttgac 60  
 43 agacctccag ccgtacatgc gacagttcgt ggctcacc 98  
 46 <210> SEQ ID NO: 3  
 47 <211> LENGTH: 23  
 48 <212> TYPE: DNA  
 49 <213> ORGANISM: Homo sapiens  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: mRNA  
 53 <222> LOCATION: (1)..(23)  
 54 <223> OTHER INFORMATION: subunit 2183-2205 of hTERT (Accession AF015950)  
 56 <400> SEQUENCE: 3  
 57 aaggtggatg tgacgggcgc gta 23  
 60 <210> SEQ ID NO: 4  
 61 <211> LENGTH: 20  
 62 <212> TYPE: DNA  
 63 <213> ORGANISM: Homo sapiens

*see pp 1-3, 5*  
**Does Not Comply  
 Corrected Diskette Needed**

*see  
 1.823  
 of  
 Sequence  
 Rules*

*PyI: Per 1.823 of  
 Sequence Rules, database accession  
 numbers need to be listed, along with  
 accession date, as shown below  
 <3007> ← no response. this is a "header"  
 <3087> AF015950  
 <3097> ← list accession date on this line*

## RAW SEQUENCE LISTING

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DATE: 08/01/2006

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Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\08012006\J537449.raw

65 <220> FEATURE:  
 66 <221> NAME/KEY: mRNA  
 67 <222> LOCATION: (1)..(20)  
 68 <223> OTHER INFORMATION: subunit 2206-2225 of hTERT (Accession AF015950)  
 70 <400> SEQUENCE: 4  
 71 cgacaccatc ccccaggaca 20  
 74 <210> SEQ ID NO: 5  
 75 <211> LENGTH: 20  
 76 <212> TYPE: DNA  
 77 <213> ORGANISM: Homo sapiens  
 79 <220> FEATURE:  
 80 <221> NAME/KEY: mRNA  
 81 <222> LOCATION: (1)..(20)  
 82 <223> OTHER INFORMATION: subunit 2315-2334 of hTERT (Accession AF015950)  
 84 <400> SEQUENCE: 5  
 85 cacgtccgca aggccttcaa 20  
 88 <210> SEQ ID NO: 6  
 89 <211> LENGTH: 20  
 90 <212> TYPE: DNA  
 91 <213> ORGANISM: Homo sapiens  
 93 <220> FEATURE:  
 94 <221> NAME/KEY: mRNA  
 95 <222> LOCATION: (1)..(20)  
 96 <223> OTHER INFORMATION: subunit 2317-2336 of hTERT (Accession AF015950)  
 98 <400> SEQUENCE: 6  
 99 cgtccgcaag gccttcaaga 20  
 102 <210> SEQ ID NO: 7  
 103 <211> LENGTH: 23  
 104 <212> TYPE: DNA  
 105 <213> ORGANISM: Homo sapiens  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: mRNA  
 109 <222> LOCATION: (1)..(23)  
 110 <223> OTHER INFORMATION: subunit 2324-2346 of hTERT (Accession AF015950)  
 112 <400> SEQUENCE: 7  
 113 aaggccttca agagccacgt ctc 23  
 116 <210> SEQ ID NO: 8  
 117 <211> LENGTH: 20  
 118 <212> TYPE: DNA  
 119 <213> ORGANISM: Homo sapiens  
 121 <220> FEATURE:  
 122 <221> NAME/KEY: mRNA  
 123 <222> LOCATION: (1)..(20)  
 124 <223> OTHER INFORMATION: subunit 2331-2350 hTERT (Accession AF015950)  
 126 <400> SEQUENCE: 8  
 127 tcaagagcca cgtctctacc 20  
 130 <210> SEQ ID NO: 9  
 131 <211> LENGTH: 20  
 132 <212> TYPE: DNA

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/537,449

DATE: 08/01/2006

TIME: 10:08:44

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\08012006\J537449.raw

133 &lt;213&gt; ORGANISM: Homo sapiens

135 &lt;220&gt; FEATURE:

136 &lt;221&gt; NAME/KEY: mRNA

137 &lt;222&gt; LOCATION: (1)..(20)

138 &lt;223&gt; OTHER INFORMATION: subunit 2333-2352 of hTERT (Accession AF015950)

140 &lt;400&gt; SEQUENCE: 9

141 aagagccacg tctctacctt

20

144 &lt;210&gt; SEQ ID NO: 10

145 &lt;211&gt; LENGTH: 20

146 &lt;212&gt; TYPE: DNA

147 &lt;213&gt; ORGANISM: Artificial Sequence

149 &lt;220&gt; FEATURE:

150 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS

AStel

151 2206-2225

153 &lt;400&gt; SEQUENCE: 10

154 tgtcctgggg gatggtgtcg

20

157 &lt;210&gt; SEQ ID NO: 11

158 &lt;211&gt; LENGTH: 20

159 &lt;212&gt; TYPE: DNA

160 &lt;213&gt; ORGANISM: Artificial Sequence

162 &lt;220&gt; FEATURE:

163 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS

AStel

164 2315-2334

166 &lt;400&gt; SEQUENCE: 11

167 ttgaaggcct tgcggacgtg

20

170 &lt;210&gt; SEQ ID NO: 12

171 &lt;211&gt; LENGTH: 20

172 &lt;212&gt; TYPE: DNA

173 &lt;213&gt; ORGANISM: Artificial Sequence

175 &lt;220&gt; FEATURE:

176 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS

AStel

177 2317-2336

179 &lt;400&gt; SEQUENCE: 12

180 tcttgaaggc cttgcggacg

20

183 &lt;210&gt; SEQ ID NO: 13

184 &lt;211&gt; LENGTH: 20

185 &lt;212&gt; TYPE: DNA

186 &lt;213&gt; ORGANISM: Artificial Sequence

188 &lt;220&gt; FEATURE:

189 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS

AStel

190 2331-2350

192 &lt;400&gt; SEQUENCE: 13

193 ggtagagacg tggctcttga

20

196 &lt;210&gt; SEQ ID NO: 14

197 &lt;211&gt; LENGTH: 20

198 &lt;212&gt; TYPE: DNA

199 &lt;213&gt; ORGANISM: Artificial Sequence

201 &lt;220&gt; FEATURE:

202 &lt;223&gt; OTHER INFORMATION: Description of Artificial Sequence: hTERT-AS

AStel

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Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\08012006\J537449.raw

203 2333-2352

205 <400> SEQUENCE: 14

206 aaggtagaga cgtggctctt 20

209 <210> SEQ ID NO: 15

210 <211> LENGTH: 20

211 <212> TYPE: DNA

212 <213> ORGANISM: Artificial Sequence

214 <220> FEATURE:

215 <223> OTHER INFORMATION: Description of Artificial Sequence: NS-K2 20

217 <400> SEQUENCE: 15

218 cagtctcagt actgaagctg

221 <210> SEQ ID NO: 16

222 <211> LENGTH: 20

223 <212> TYPE: DNA

224 <213> ORGANISM: Artificial Sequence

226 <220> FEATURE:

227 <223> OTHER INFORMATION: Description of Artificial Sequence: NS-K3 20

229 <400> SEQUENCE: 16

230 cagcttcagt actgagactg

233 <210> SEQ ID NO: 17

234 <211> LENGTH: 501

235 <212> TYPE: DNA

236 <213> ORGANISM: Homo sapiens

238 <220> FEATURE:

239 <221> NAME/KEY: mRNA

240 <222> LOCATION: (1)..(501)

241 <223> OTHER INFORMATION: subunit 2000-2500 of hTERT (Accession AF015950)

243 <400> SEQUENCE: 17

244 aagagggccg agcgtctcac ctcgaggggtg aaggcactgt tcagcgtgct caactacgag 60

245 cgggcgcggc gccccggcct cctggggcgcc tctgtgctgg gcctggacga tatccacagg 120

246 gcctggcgca cttcgtgct gcgtgtgcgg gcccgaggacc cgccgcctga gctgtacttt 180

247 gtcaaggtgg atgtgacggg cggtacgac accatcccc aggacaggct cacggaggctc 240

248 atcgccagca tcatcaaacc ccagaacacg tactgcgtgc gtcggtatgc cgtggtccag 300

249 aaggccgccc atgggcacgt ccgcaaggcc ttcaagagcc acgtctctac cttgacagac 360

250 ctccagccgt acatgcgaca gttcgtggct cacctgcagg agaccagccc gctgagggat 420

251 gccgtcgtca tcgagcagag ctcctccctg aatgaggcca gcagtggcct cttcgacgtc 480

252 ttcctacgct tcatgtgcca c 501

255 <210> SEQ ID NO: 18

256 <211> LENGTH: 4015

257 <212> TYPE: DNA

258 <213> ORGANISM: Homo sapiens

260 <220> FEATURE:

261 <221> NAME/KEY: mRNA

262 <222> LOCATION: (1)..(4015)

263 <223> OTHER INFORMATION: hTERT (EMBL:Accession AF015950)

265 <400> SEQUENCE: 18

266 gcagcgctgc gtcctgctgc gcacgtggga agccctggcc ccggccaccc ccgcgatgcc 60

267 gcgcgctccc cgctgccgag ccgtgcgctc cctgctgcgc agccactacc gcgaggtgct 120

268 gccgctggcc acgttcgtgc ggcgcctggg gccccagggc tggcggtgg tgcagcgcg 180

*insufficient explanation*

*give source of genetic material (see item 11 on Ewen summary sheet)*

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Input Set : A:\PTO.KD.txt

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```

269 ggacccgcg gctttccgcg cgtggtggc ccagtgcctg gtgtgctgc cctgggacgc 240
270 acggccgccc cccgcccgc cctccttcg ccaggtgtcc tgcctgaagg agctggtggc 300
271 ccgagtgtg cagaggctgt gcgagcgcg cgcgaagaac gtgctggcct tcggcttcgc 360
272 gctgctggac ggggcccgcg ggggcccccc cgaggccttc accaccagcg tgcgcagcta 420
273 cctgcccac acggtgaccg acgcactgcg ggggagcggg gcgtgggggc tgcgtgctgc 480
274 ccgctggggc gacgacgtgc tggttcacct gctggcacgc tgcgcgctct ttgtgctggt 540
275 ggctcccagc tgcgcctacc aggtgtgctg gccgcccgtg taccagctcg gcgctgccac 600
276 tcaggcccgg cccccgccac acgctagtgg accccgaagg cgtctgggat gcgaacgggc 660
277 ctggaaccat agcgtcaggg agggccgggt cccctggggc ctgccagccc cgggtgctgc 720
278 gaggcgctgg ggcagtgcc gccaagtct gccgttgccc aagaggccca ggcgtggcgc 780
279 tgcccctgag ccggagcgga cgcctgttg gcaggggtcc tgggcccacc cgggcaggac 840
280 gcgtggaccg agtgaccgtg gtttctgtgt ggtgtcacct gccagaccg ccgaagaagc 900
281 cacctctttg gaggtgctgc tctctggcac gcgccactcc caccatccg tgggcccaca 960
282 gcaccacgcg ggccccccat ccacatcgcg gccaccacgt ccctgggaca cgccttgtcc 1020
283 cccggtgtac gccgagacca agcacttcct ctactcctca ggcgacaagg agcagctgct 1080
284 gccctccttc ctactcagct ctctgaggcc cagcctgact ggcgctcgga ggctcgtgga 1140
285 gaccatcttt ctgggttcca ggccctggat gccagggact ccccgaggt tgcggcgct 1200
286 gcccagcgct tactggcaaa tgcggccctt gtttctggag ctgcttggga accacgcga 1260
287 gtgcccctac ggggtgctcc tcaagacgca ctgcccgtg cgagctgctg tcacccagc 1320
288 agccggtgtc tgtgcccggg agaagcccca gggctctgtg gcggcccccg aggaggagga 1380
289 cacagacccc cgtcgctggt tgcagctgct ccgcccagac agcagccctt ggcaggtgta 1440
290 cggcttcgtg cgggcctgcc tgcgcgggt ggtgcccaca ggccctctgg gctccaggca 1500
291 caacgaacgc cgcttcctca ggaacaccaa gaagtcatc tccctgggga agcatgccaa 1560
292 gctctcgtg caggagctga cgtggaagat gagcgtgctg gactgctgtt ggctgctgag 1620
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294 caagtccctg cactggctga tgagtgtgta cgtcgtcgag ctgctcaggt ctttctttta 1740
295 tgtcacggag accacgtttc aaaagaacag gctctttttc taccggaaga gtgtctggag 1800
296 caagtgtcaa agcattggaa tcagacagca cttgaagagg gtgcagctgc gggagctgtc 1860
297 ggaagcagag gtcaggcagc atcggaagc caggcccgc ctgctgacgt ccagactccg 1920
298 cttcatcccc aagcctgacg ggctgctgac gattgtgaac atggactacg tcgtgggagc 1980
299 cagaacgttc cgcagagaaa agaggccga gcgtctcacc tcgagggtga aggcactgtt 2040
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311 cttcctcagg accctggctc gaggtgtccc tgagtatggc tgcgtgggtg acttgcgga 2760
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313 gccggcccac ggctatttcc cctggtgctg cctgctgctg gatacccga ccctggaggt 2880
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316 tcacagcctg tttctggatt tgcaggtgaa cagcctccag acggtgtgca ccaacatcta 3060
317 caagatcctc ctgctgcagg cgtacaggtt tcacgcatgt gtgctgcagc tccatttca 3120

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/537,449

DATE: 08/01/2006

TIME: 10:08:45

Input Set : A:\PTO.KD.txt

Output Set: N:\CRF4\08012006\J537449.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date